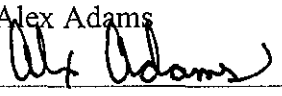
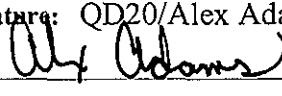
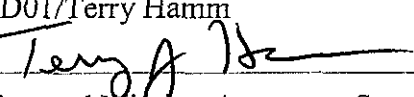


S&MA Mission Services Technical Directive

REC'D JAN 24 2005

Control No: 0145	Org. Code: QD20	Project Code: Sh-RCCPR	Contract #: NAS8-00179
Originator: QD20/Alex Adams 		Date: 1-21-05	
Office Manager's Signature: QD20/Alex Adams 		Date: 1-21-05	
COTR's Signature: QD01/Terry Hamm 		Date: 1-24-05	
Subject: Provide Safety and Mission Assurance Support to the Shuttle RCC Panel Repair (RCCPR) Project			

Task Description:

Utilizing as a basis PWS 3.0/5.0/6.0/8.0, provide the below assurance functions to the RCCPR Project.

Safety

1. Assess project documentation to assure applicable safety requirements are included
2. Prepare a patch repair Hazard Analysis and a crack repair material Hazard Analysis
3. Assess the integrated Hazard Analyses (JSC) to assure hazards are identified and controls are defined
4. Prepare patch repair and crack repair material SDPs and presentations for Phased Safety Reviews
5. Participate in Safety Reviews and other project essential reviews
6. Provide input to the Project Fault Tree (JSC) and to overall S&MA project planning through JSC S&MA
8. Coordinate with JSC S&MA and appropriate safety review panels to address issues and concerns

Reliability

1. Assess project documentation to assure applicable reliability requirements are included
2. Prepare FMEA/CIL and other reliability analyses for the patch repair and the crack repair material
3. Prepare PFMEA for patch repair effort and crack repair material processing
4. Support milestone reviews as related to reliability

Quality PWS 6.0

1. Provide quality engineering for the RCCPR project, to include: a) baseline Quality Assurance Plan and b) ensure that all documentation and activities comply with MSFC procedures and directives
2. Support Milestone Reviews as related to quality
3. Provide Quality Assurance support of the MSFC Test Area and other testing activities as required
4. Provide Quality Assurance support of S&MA inspection activities

Project Assurance PSW 8.0

1. Coordinate with the project to assure resources are adequate and schedules are met
2. Participate in Milestone Reviews, Data Reviews, and other essential reviews
3. Coordinate with S&MA and Project Team Leads to assure proper execution of S&MA requirements

Deliverables:

1. Hazard Analyses for repair and material, SDPs for Phased Safety Reviews, Fault Tree inputs
2. FMEA/CIL, Process FMEA
6. Quality Plan, Review comments and expertise advice on S&MA discipline issues

Duration (If time limited task):

February 1, 2004 through September 30, 2005

Report Progress To: Sh-RCCPR Lead

Frequency of Report: On going